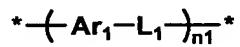


What is claimed is:

1. An organic electroluminescent element comprising a cathode and an anode having therebetween at least one organic compound layer,

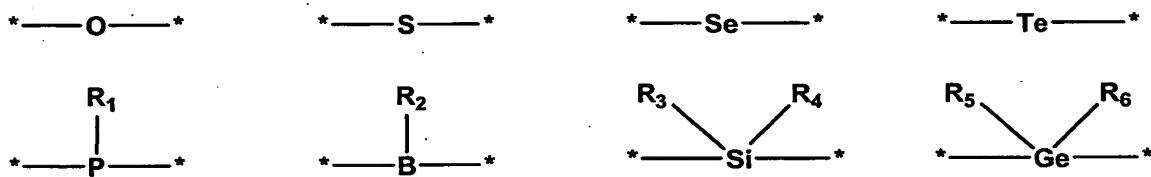
wherein one of the organic compound layer comprises a polymer having a repeat unit represented by Formula (1):

Formula (1)



wherein Ar_1 represents an arylene group which may have a substituent or a heteroarylene group having not more than two heteroatoms, which may have a substituent; and L_1 represents a linkage group selected from Group 1; and n_1 represents an integer of not less than two:

Group 1



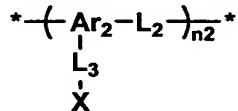
wherein R_1 - R_6 each independently represent an alkyl group or an aryl group, provided that R_3 and R_4 , or R_5 and R_6 may be joined to form a ring.

2. The organic electroluminescent element of claim 1, wherein a number of rings of Ar_1 in Formula (1) is not more than 5.

3. An organic electroluminescent element comprising a cathode and an anode having therebetween at least one organic compound layer,

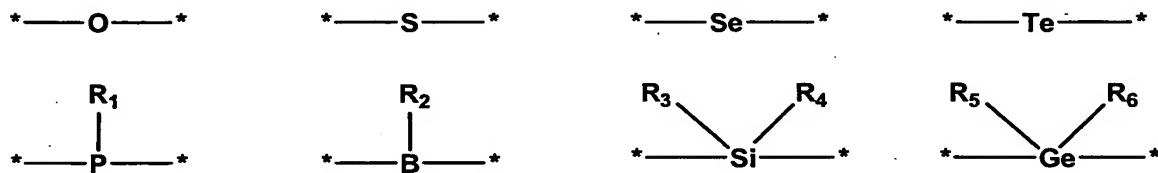
wherein one of the organic compound layer comprises a polymer having one of repeat units represented by Formula (2) :

Formula (2)

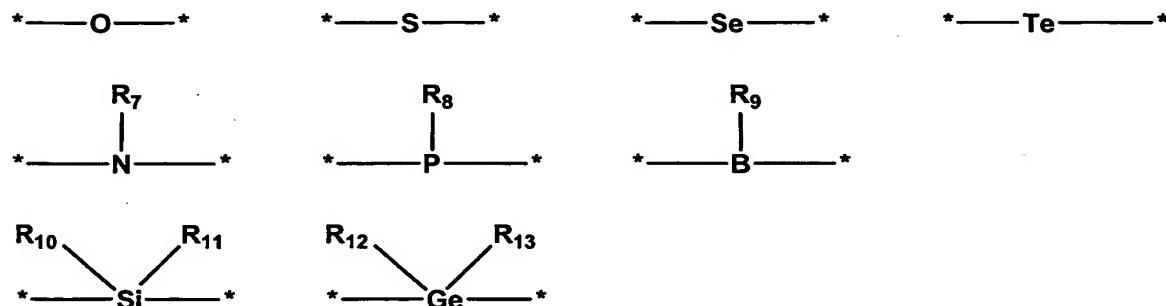


wherein Ar_2 represents an arylene group which may have a substituent or a heteroarylene group having not more than two heteroatoms, which may have a substituent; L_2 represents a linkage group selected from Group 2; and L_3 represents a single bond or a linkage group selected from Group 3; X represents one of a hole transport group, an electron transport group, a fluorescent group and a phosphorescent group; and n_2 represents an integer of not less than two:

Group 2



Group 3



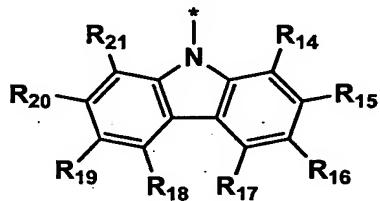
wherein R_1 - R_6 each independently represent an alkyl group or an aryl group, provided that R_3 and R_4 , or R_5 and R_6 may be

joined to form a ring, and R₇ - R₁₃ each independently represent an alkyl group or an aryl group, provided that R₁₀ and R₁₁, or R₁₂ and R₁₃ may be joined to form a ring.

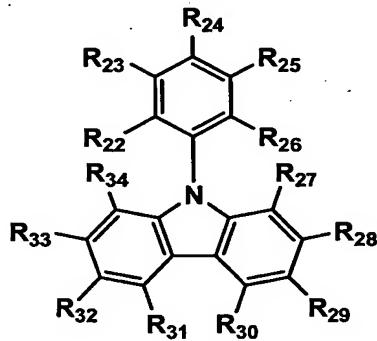
4. The organic electroluminescent element of claim 3, wherein a number of rings of Ar₂ in Formula (2) is not more than 5.

5. The organic electroluminescent element of claim 3, wherein the hole transport group includes a substructure represented by Formula (3) or Formula (4):

Formula (3)



Formula (4)



wherein

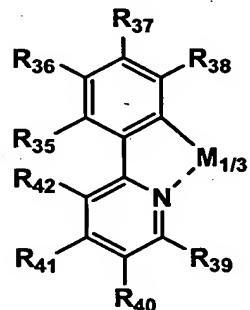
in Formula (3), R₁₄ - R₂₁ each independently represent a hydrogen atom, an alkyl group or a cycloalkyl group, provided that adjacent groups of R₁₄ - R₂₁ may be joined to form a ring; and

in Formula (4), R_{22} - R_{30} each independently represent a hydrogen atom, an alkyl group or a cycloalkyl group, and R_{31} - R_{34} each independently represent a hydrogen atom, a single bond, an alkyl group or a cycloalkyl group, provided that one of R_{31} - R_{34} represents a single bond, and that adjacent groups of R_{22} - R_{34} may be joined to form a ring.

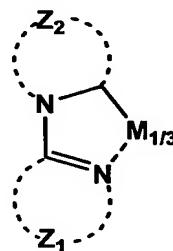
6. The organic electroluminescent element of claim 3, wherein the phosphorescent group comprises an organometal complex.

7. The organic electroluminescent element of claim 6, wherein the organometal complex comprises a substructure represented by one of Formulas (5) to (8) :

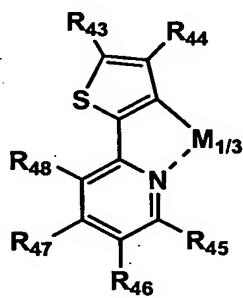
Formula (5)



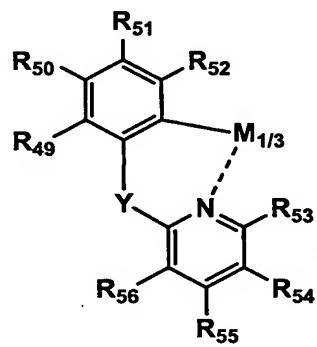
Formula (6)



Formula (7)



Formula (8)



wherein

in Formula (5), R_{35} - R_{42} each independently represent a hydrogen atom, a single bond or a substituent, provided that adjacent groups of R_{35} - R_{42} may be joined to form a ring, and M represents a metal atom;

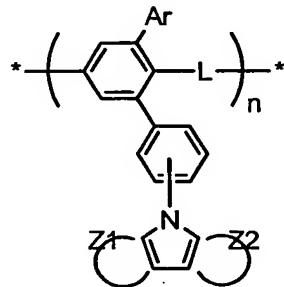
in Formula (6), Z_1 and Z_2 each independently represent a group of atoms necessary to form an aromatic ring together with a carbon atom and a nitrogen atom, and M represents a metal atom;

in Formula (7), R_{43} - R_{48} each independently represent a hydrogen atom, a single bond or a substituent, provided that adjacent groups of R_{43} - R_{48} may be joined to form a ring, and M represents a metal atom; and

in Formula (8), Y represents a divalent linkage group, R_{49} - R_{56} each independently represent a hydrogen atom, a single bond or a substituent, provided that adjacent groups of R_{49} - R_{56} may be joined to form a ring, and M represents a metal atom.

8. The organic electroluminescent element of claim 3, wherein one of the repeat units represented by Formula (2) is further represented by Formula (21):

Formula (21)

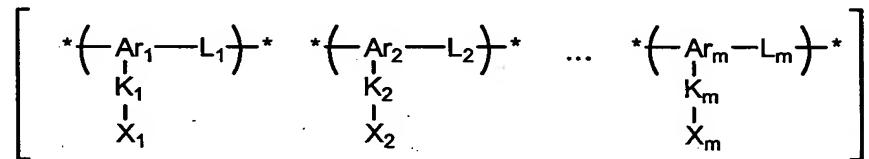


wherein Ar represents an arylene group which may have a substituent or a heteroarylene group which may have a substituent; Z_1 and Z_2 each represent a 6-membered aromatic ring comprising a group of atoms of carbon, hydrogen or nitrogen, provided that Z_1 and Z_2 may be different.

9. An organic electroluminescent element comprising a cathode and an anode having therebetween at least one organic compound layer,

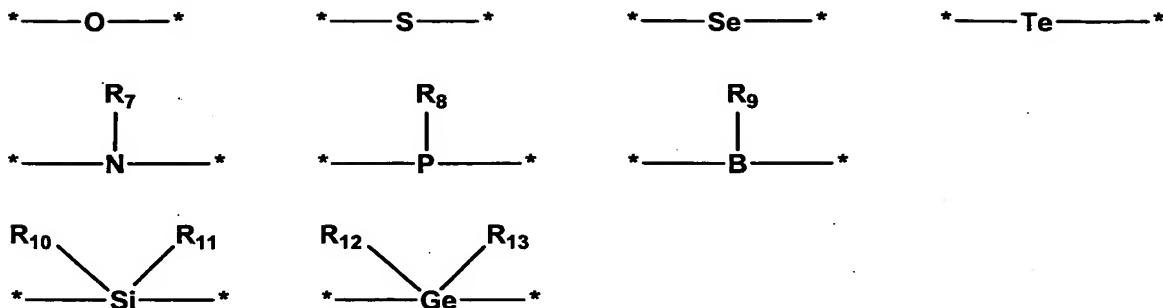
wherein one of the organic compound layer comprises a copolymer represented by Formula (22):

Formula (22)



wherein Ar_1 to Ar_m each represent an arylene group which may have a substituent or a heteroarylene group which may have a substituent; m represents an integer of not less than two; Ar_1 to Ar_m may be the same or may be different; the heteroarylene group comprises not more than two heteroatoms; K_1 to K_m each represent a single bond or a linkage group selected from Group 3; and X_1 to X_m each represent a hole transport group, an electron transport group or a phosphorescent group:

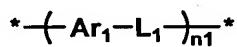
Group 3



wherein R_7 - R_{13} each independently represent an alkyl group or an aryl group, provided that R_{10} and R_{11} , or R_{12} and R_{13} may be joined to form a ring.

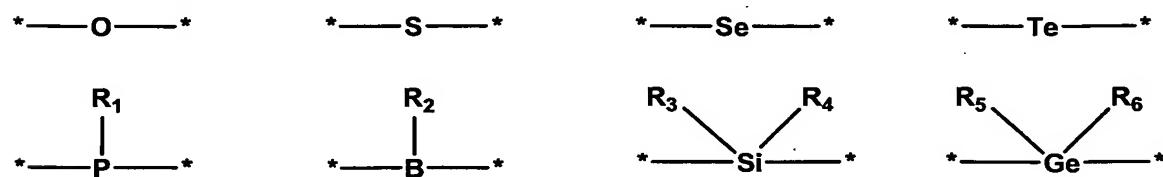
10. An organic electroluminescent element comprising a cathode and an anode having therebetween at least one organic compound layer,
 wherein one of the organic compound layer comprises a mixture of two or more polymers each represented by Formulas (1), (2), (21) or (22):

Formula (1)



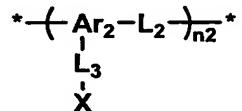
wherein Ar_1 represents an arylene group which may have a substituent or a heteroarylene group having not more than two heteroatoms, which may have a substituent; and L_1 represents a linkage group selected from Group 1; and n_1 represents an integer of not less than two:

Group 1



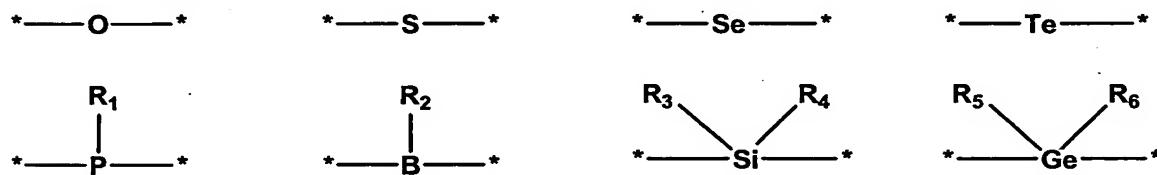
wherein R_1 - R_6 each independently represent an alkyl group or an aryl group, provided that R_3 and R_4 , or R_5 and R_6 may be joined to form a ring,

Formula (2)

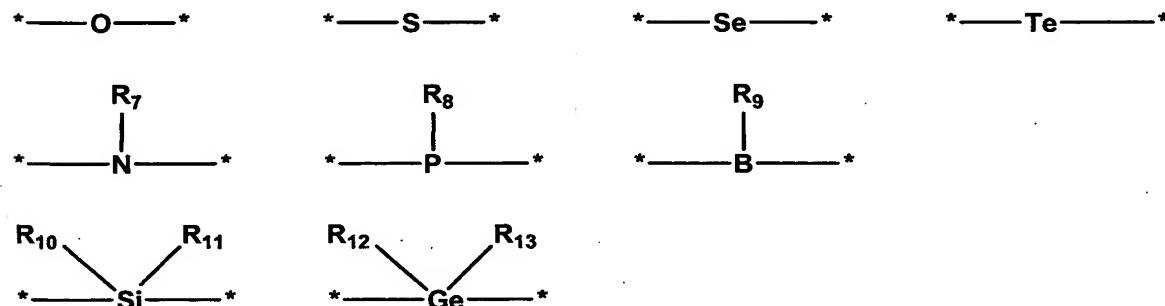


wherein Ar_2 represents an arylene group which may have a substituent or a heteroarylene group having not more than two heteroatoms, which may have a substituent; L_2 represents a linkage group selected from Group 2; and L_3 represents a single bond or a linkage group selected from Group 3; X represents one of a hole transport group, an electron transport group, a fluorescent group and a phosphorescent group; and n_2 represents an integer of not less than two:

Group 2



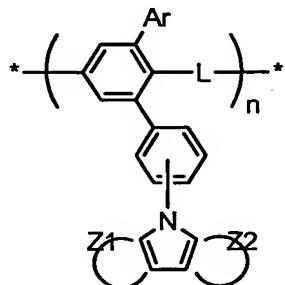
Group 3



wherein R_1 - R_6 each independently represent an alkyl group or an aryl group, provided that R_3 and R_4 , or R_5 and R_6 may be

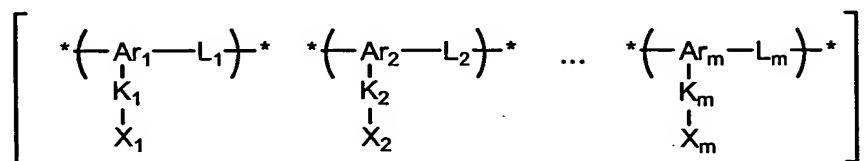
joined to form a ring, and R_7 - R_{13} each independently represent an alkyl group or an aryl group, provided that R_{10} and R_{11} , or R_{12} and R_{13} may be joined to form a ring,

Formula (21)



wherein Ar represents an arylene group which may have a substituent or a heteroarylene group which may have a substituent; Z_1 and Z_2 each represent a 6-membered aromatic ring comprising a group of atoms of carbon, hydrogen or nitrogen, provided that Z_1 and Z_2 may be different., and

Formula (22)



wherein Ar_1 to Ar_m each represent an arylene group which may have a substituent or a heteroarylene group which may have a substituent; m represents an integer of not less than two; Ar_1 to Ar_m may be the same or may be different; the heteroarylene group comprises not more than two heteroatoms; K_1 to K_m each represent a single bond or a linkage group selected from above Group 3; and X_1 to X_m each represent a hole transport group, an electron transport group or a phosphorescent group.

11. The organic electroluminescent element of claim 1, wherein the organic electroluminescent element emits white light.

12. A display equipped with the organic electroluminescent element of claim 1.

13. An illuminator equipped with the organic electroluminescent element of claim 1.

14. A display equipped with the illuminator of claim 13 and a liquid crystal cell as a display means.

15. The organic electroluminescent element of claim 3, wherein the organic electroluminescent element emits white light.

16. A display equipped with the organic electroluminescent element of claim 3.

17. An illuminator equipped with the organic electroluminescent element of claim 3.

18. A display equipped with the illuminator of claim 17 and a liquid crystal cell as a display means.

19. The organic electroluminescent element of claim 9, wherein the organic electroluminescent element emits white light.

20. A display equipped with the organic electroluminescent element of claim 9.

21. An illuminator equipped with the organic electroluminescent element of claim 9.

22. A display equipped with the illuminator of claim 21 and a liquid crystal cell as a display means.

23. The organic electroluminescent element of claim 10, wherein the organic electroluminescent element emits white light.

24. A display equipped with the organic electroluminescent element of claim 10.

25. An illuminator equipped with the organic electroluminescent element of claim 10.

26. A display equipped with the illuminator of claim 25 and a liquid crystal cell as a display means.